T. Timothy Crocker, M.D.
Department of Medicine
University of California
San Francisco Medical Center
San Francisco, California 94122

Biologic Activity of Tobacco Tar on Respiratory Mucosa of Rodents, Canines and Primates in Organ Culture; A Histologic and Autoradiographic Study.

Grant #572R1

Organ cultures of trachea, bronchi and lungs from unborn or newborn hamsters, dogs and monkeys will be exposed to crude tobacco products or their fractions. Cultures will be fixed at intervals and will be labeled with tritiated thymidine just before fixation. Sections will be examined to learn whether an abnormal appearance of cells or a change in cell growth rates has been produced. The effect of tobacco products, if any, will be compared with effects of known carcinogens or with the abnormal states present in bronchial epithelium of human subjects with lung cancer. In addition, the extent of abnormality will be compared in respiratory epithelia of the three animals under study to learn whether any or all are susceptible to the action of tobacco products. Comparative studies of this type will help to determine whether common laboratory animals (hamster and dog) are useful in predicting the response of the respiratory tract of primates (monkey and man) exposed to such materials.

Current Grant Level: $61,584.

1005075457

Source: https://www.industrydocuments.ucsf.edu/docs/jsmk0000